

What is claimed is:

1. An image coding-decoding method comprising the
steps of:

5 performing a multiresolution transformation process
on an image signal to obtain multiresolution transformed signals;

10 performing a coefficient transformation process,
which corresponds to a desired image processing, on said
multiresolution transformed signals to obtain processed
transformed signals which carry a processed image subjected to
said desired image processing;

15 performing a coding process on said processed
transformed signals to obtain processed coded data which carries
said processed image; and

20 decoding said processed coded data and further
performing an inverse multiresolution transformation process,
to obtain a processed image signal which carries said processed
image.

25 2. An image coding-decoding method comprising the
steps of:

20 performing a multiresolution transformation process
on an image signal to obtain multiresolution transformed signals;

25 performing a coding process on said multiresolution
transformed signals to obtain coded data;

30 decoding said coded data to obtain decoded transformed
signals;

35 performing a coefficient transformation process,

which corresponds to a desired image processing, on said decoded transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing; and

5 performing an inverse multiresolution transformation process on said processed transformed signals to obtain a processed image signal which carries said processed image.

3. An image coding-decoding system comprising:
multiresolution transformation means for performing
10 a multiresolution transformation process on an image signal to obtain multiresolution transformed signals;

coefficient transformation means for performing a coefficient transformation process, which corresponds to a desired image processing, on said multiresolution transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing;

coding means for performing a coding process on said processed transformed signals to obtain processed coded data which carries said processed image;

20 decoding means for decoding said processed coded data;
and

inverse multiresolution transformation means for performing an inverse multiresolution transformation process on said processed transformed signals to obtain processed image signals which carry said processed image.

25 4. An image coding-decoding system comprising:

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multiresolution transformation means for performing a multiresolution transformation process on an image signal to obtain multiresolution transformed signals;

5 coding means for performing a coding process on said multiresolution transformed signals to obtain coded data;

decoding means for decoding said coded data to obtain decoded transformed signals;

10 coefficient transformation means for performing a coefficient transformation process, which corresponds to a desired image processing, on said decoded transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing; and

15 inverse multiresolution transformation means for performing an inverse multiresolution transformation process on said processed transformed signals to obtain processed image signals which carry said processed image.

5. An image coder comprising:

20 multiresolution transformation means for performing a multiresolution transformation process on an image signal to obtain multiresolution transformed signals;

25 coefficient transformation means for performing a coefficient transformation process, which corresponds to a desired image processing, on said multiresolution transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing; and

coding means for performing a coding process on said

processed transformed signals to obtain processed coded data which carries said processed image.

6. An image decoder comprising:

decoding means for decoding coded data to obtain

5 decoded transformed signals;

coefficient transformation means for performing a coefficient transformation process, which corresponds to a desired image processing, on said decoded transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing; and

10 inverse multiresolution transformation means for performing an inverse multiresolution transformation process on said processed transformed signals to obtain a processed image signal which carries said processed image.

15 7. A computer readable storage medium recording a program for making a computer execute an image coding-decoding method, the program having:

20 a procedure of performing a multiresolution transformation process on an image signal to obtain multiresolution transformed signals;

25 a procedure of performing a coefficient transformation process, which corresponds to a desired image processing, on said multiresolution transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing;

a procedure of performing a coding process on said

processed transformed signals to obtain processed coded data which carries said processed image; and

a procedure of decoding said processed coded data and further performing an inverse multiresolution transformation process, to obtain a processed image signal which carries said processed image.

8. A computer readable storage medium recording a program for making a computer execute an image coding-decoding method, the program having:

a procedure of performing a multiresolution transformation process on an image signal to obtain multiresolution transformed signals;

a procedure of performing a coding process on said multiresolution transformed signals to obtain coded data;

a procedure of decoding said coded data to obtain decoded transformed signals;

a procedure of performing a coefficient transformation process, which corresponds to a desired image processing, on said decoded transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing; and

a procedure of performing an inverse multiresolution transformation process on said processed transformed signals to obtain a processed image signal which carries said processed image.